Public Works (189) Department.

G.O., No. 9177 }
918 }

DATED 25 Oct 89

15/11/99

(Despatch Abstract.)

Chunnambur offtake, Periyar project.

The estimate of Rs 3,450 for improving the —— sanctioned, and a copy of the Pro: ordered to be forwarded to the G. of I.

Chunnambur offtake, Periyar project.

~~Forwarding the Estimate of Rs 3,450 for~~

~~...~~ Forwarding a copy of the Pros. sancg the estimate of Rs 3,450 for improving the ——

P. W. 24.

IRRIGATION.
ACCOUNT.

Government {1899} of Madras.

PUBLIC WORKS.

Recd. } 1899 *Enclosures*

Regd. *Spare copies*

G.O., Nos. 917, 918 I., 25th October 1899.

OCTOBER.

Chunnambur Offtake, Periyar Project

Forwarding a copy of the Proceedings sanctioning the estimate of Rs. 3,450 for improving the —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Irrigation.
Account.

Read—the following papers :—

From Lieutenant-Colonel O. V. BODDY, R.E., Superintending Engineer, VI Circle, to the Chief Engineer for Irrigation, dated Trichinopoly, 11th August 1899, No. 1222 M.D.

I have the honour to forward for sanction an estimate, amounting to Rs. 2,830, for improving the Chunnambur offtake from drop No. 2 to drop No. 3, Periyár works.

2. The object of the proposed outlay is to secure the banks in this part of the offtake from breaching which now frequently occurs owing to the inferior nature of the soil of which they are composed.

3. Two proposals have been made, the first of which is to raise and strengthen the banks throughout from drop No. 2 to drop No. 3 with a height of 6 feet above bed level, top width 4 feet and side slopes 2 to 1 both in front and rear, and also to gravel the top of bund to a depth of 6 inches. The estimated cost for the work amounts to Rs. 3,850, of which Rs. 3,350 is for repairs to bank and Rs. 500 for compensation for land to be taken up from which to excavate soil to make up the banks. Considering the nature of the soil of which the banks are formed, it is probable that they will give trouble even if made up to this increased section.

4. The second proposal is to lower the bed of the offtake from the 57th chain by constructing a 2½ ft. drop and to alter the crest levels of the two existing bye-washes to the reduced levels of 419·15 and 418·72, respectively, and also to lower the upper sill of drop No. 3 by 2 feet. The advantage to be gained by this proposal is that no raising of the banks below the site of the proposed 2½ ft. drop would be required as will be seen from the longitudinal section. Above the drop both banks will be raised and strengthened, for which provision is made in the estimate under submission which is recommended for sanction.

Enclosure.

Report to accompany the estimate for improvements to the Chunnambur offtake from drop No. 2 to drop No. 3.

	RS.
Amount of estimate	2,830

The banks of Chunnambur offtake from 31st chain to 160th chain have been giving continual trouble since 1897 when water was first let down. The high banking being, at that portion, formed of inferior soil, has breached in as many as twenty places during last working season. It costs fully Rs. 3,850 to raise and strengthen the banks to proper section with side slopes of 2 to 1, and even if raised to the full section, the banks will give good deal of trouble owing to the poor nature of the soil. It is therefore proposed to construct a drop of 2½ feet at 26th chain below drop No. 2 or 57th chain from the head sluice, to raise and strengthen the banks wherever found low, to demolish and rebuild the two bye-washes at chains 74 and 98 with their crests at 419·15 and 418·72, respectively, and to lower the upper sill of drop No. 3 by 2 feet. The channel will now have a bed fall of 3·56 feet per mile from 32nd chain to 57th chain, 1·34 feet per mile up to 95th chain, 1 foot per mile up to 145th chain, and 3 feet per mile lower down.

As banks below C. S. No. 11 are high, it is proposed to widen the banks wherever found too narrow.

Provision is also made for gravelling the banks from 31st chain to 160th chain.

This estimate is recommended for sanction, as the cost of improvements is below the estimate for raising and strengthening the banks and as the banks will be always safe by the diminished height of banking.

The work will be carried out in accordance with the provisions of the standard specification current in the department.

MADURA,
12th June 1899.

(Signed) A. V. RAMALINGA AIYAR,
Asst. Engineer, Periyár Division.

No. 191 I.

Note by the Chief Engineer for Irrigation.

The Superintending Engineer, VI Circle, submits two alternative proposals—one to cost Rs. 3,850 and the other Rs. 2,830—for improving the Chunnambar offtake from drop No. 2 to drop No. 3, Periyár project, with a view to securing the banks of the offtake from breaching, and recommends the latter proposal the estimate for which, as altered in this office owing to errors found in the calculations, amounts to Rupees 2,810 and may be sanctioned.

25th September 1899.

(Signed) W. HUGHES,
Chief Engineer for Irrigation.

ORDER—No. 917 I., dated 25th October 1899.

The following estimate is sanctioned :—

Capital Expenditure not charged to Revenue.
49. Irrigation.
Periyár Project.
Open Capital Account.
3. Distributaries.
10th Branch Channel.
Unremunerative Work.
Improving the Chunnambur Offtake from Drop No. 2 to Drop No. 3.

	RS.	RS.
2. Land—		
(1) Compensation for land	63	
		63
3. Works—		
(2) 2½ feet drop	510	
(3) Demolishing and re-building portions of the two bye-washes to the proposed level	100	
(4) Demolishing portion of drop No. 3 and re-building the same to the proposed level...	27	
		637
4. Earthwork—		
(5) Deepening channel and strengthening banks	2,100	
		2,100
5. Miscellaneous—		
(6) Demarcation stones	10	
		10
Total, I. Works ...	2,810	
II. Establishment ...	632	
III. Tools and plant ...	8	
Total Estimate	3,450	

2. This sanction is registered as No. 79 I. of 1899–1900 and will expire on the 31st March 1901.

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

[Here enter No. 918 I., dated 25th October 1899.]

(True Extract.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

To the Chief Engineer for Irrigation.
" Superintending Engineer, VI Circle, with five enclosures.
" Examiner of Public Works Accounts.

ENDORSEMENT—No. 918 I., dated 25th October 1899.

Forwarded.

(By order.)

(Signed) W. HUGHES,
Joint Secy. to Government,
Irrigation Branch.

Exd. T. K. Narayana Aiyangar.

Public Works (1899.) Department.

CURRENT No. 8393

Order

From The Chief Engineer for Irrigation

No. 191-I.

Dated 25-9-99

Received } 12-10-99

Registered

Enclosures 5 Plans - 4 } Total
Others - 3 } 7

Spare copies.

SUBJECT.

Chunnambar offtake from drop No 2 to drop No 3 - Estimate of Rs 3450, as altered in this office for improving the - Note recommending for sanction the -

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

H.E.

PUBLIC WORKS DEPARTMENT,
IRRIGATION BRANCH.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Estimate of Rs 3450 for improving the Chunnambur offtake from drop No 2 to Drop No 3 Periyar Project.

UNDER date the

READ the following

From the Supg: Engineer, 6th Circle, No. 1222 M.D. d/ 11th August 1899.

No 191. D. 25.9.99

Printed Separately

Note by the Chief Engineer for Irrigation

The Superintending Engineer, 6th Circle, submits two alternative proposals, one to cost Rs. 3850, and the other, Rs. 2830, for improving the Chunnambur offtake from drop No 2 to drop No 3, Periyar project, with a view to securing the banks of the offtake from breaching, and recommends the latter proposal the estimate for which, as altered in this office owing to errors found in the calculation, amounts to Rs. 2810 and may be sanctioned.

5P

Issue

6/10/99

Irrigation Rect

Order thereon. No: 917 Dd 25.10.99

The following estimate is

sanctioned:—

Capital Expenditure not charged to Revenue,

49. Irrigation.

Periyar Project.

Open Capital account.

~~I. works.~~

3. Distributaries.

10th Branch channel.

Unremunerative work.

Improving the Chinnamanur offtake from drop No. 2 to drop No. 3.

2 Land —	Rs	
1 Compensation for land	63	Rs 63.
3. Works —		
2. 2½ feet drop . . .	510.	
3. Demolishing and re-building portions of the two byewashes to the proposed level	100.	
4. Demolishing portion of drop No. 3 and rebuilding the same to the proposed level	27	637.
4 Earthwork —		
5. Deepening channel & strengthening banks	2100	2100.
5. Miscellaneous —		
6 Demarcation stones	10	10
Total I. works		2810.
II Establishment		632.
III Tools & plant		8
Total Estimate		3450

A.S.H.

2. This sanction is registered as No. 79 I of 1899-1900 and will expire on the 31st March 1901.

H.S.H
5.10.99

6 8

3. Ordered that a copy of these Proceedings be forwarded to the Government of India for information.

No. 918 I. 25.10.99

Endorsement

Forwarded.

WH 25.9.99

23/9

To, The Chief Engineer for Irrign:
" Supg: —do— 6th Circle
" Examiner of P.W. Accounts

S. Cfire
Sutt. Ferdinand
Desr

1/11/99

22.9.99

E. I. Form No. 1 (a)—400—27-3-99.

Reco 60 29
HE 25/9/99

Public Works (1899) Department.

18/10/99

CURRENT No. 80 M.D.

From

The Supdg Engineer VI Circle

Order

No. 1222 M.D.

Dated 11th August 1899.

Received } 14 — do —

Registered }

Enclosures 5. { 4 Plans, 1 Estimate

Spare copies

SUBJECT.

Chunnambur offtake.

Submits for sanction an estimate of Rs 2830 for improving the —

Pw E1
8398/29

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

35/

Report to accompany the Estimate for improvements to the Chennambur offtake from Drop No. 2 to Drop No. 3.

<u>Amounts of Estimate Rs ~~2775~~ 2835</u>

The banks of Chennambur offtake from 31st chain to 160th chain have been giving continual trouble since 1897 when water was first let down. The ~~heavy~~ high banking ~~and~~ being, at that portion, formed of inferior soil, has breached in as many as 20 places during last working season. It costs fully 3850 Rs to raise and strengthen the banks to proper section with side slopes of 2 to 1 and even if raised to the full section, the banks will give good deal of trouble owing to the poor nature of the soil

It

CHIEF ENGINEER FOR IRRIGATION
14 AUG. 1899
1/80 M.D.

It is therefore proposed to construct a drop of 2½ feet at 26th chain below drop No 2 or 57th chain from the head sluice, to raise and strengthen the banks wherever found low, to demolish and rebuild the 2 bye washes at chains 74 and 98 with their crests at 419.15 and 418.72 respectively and to lower the upper sill of drop No 3 by 2 ft.
The channel will now have a bed fall of 3.56 ft per mile from 32nd chain to 57th chain 1.34 ft per mile up to 95th chain 1 ft per mile up to 145th chain and 3 ft per mile lower down.

As banks below C.S. No 11 are high, it is proposed to widen the banks wherever found too narrow.

Provision is also made for gravelling the banks from 31st Chain

4 Sp

31st chain to 160th chain

This estimate is recommended for sanction as the cost of improvements is below the estimate for raising and strengthening the banks and as the banks will be always safe by the diminished height of banking

The work will be carried out in accordance with the provisions of the standard specification current in the department.

A V Ramalingam
Asstt Engineer
Periyar Dn
Madura
12/6/99

No. 1222 Ind.

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE,

Trichinopoly, 11 August 1899.
D/12

From
Lieut: Col: O. V. Boddy R. E.
~~The~~ Sperintending Engineer,
6th Circle.

1 P

To

The Chief Engineer,
for Irrigation

C... FOR IRRIGATION
14 AUG. 1899
No. 80 M. D.

SIR,

ENCLOSURES. 5

1 Estimate
1 Longl: section
1 Cross section
1 Plan of drop
1 Origl. plan of byewashes shewing alterations.

I have the honour to forward for sanction an estimate amounting to Rs 2,830/ for improving the Chunambur offtake from Drop No: 2 to Drop No: 3 - Periyar works.

2. The object of the proposed outlay is to secure the banks in this part of the offtake from breaching which now frequently occurs owing to the inferior nature of the Soil of which they are composed.

3. Two proposals have been made, the first of which is to raise and strengthen the banks throughout from Drop No: 2

200—20.4.96

to

to Drop No: 3 with a height of 6 feet above bed level, top width 4 feet and side slopes 2 to 1 both in front and rear and also to gravel the top of bund to a depth of 6 inches. The estimated cost for the work amounts to Rs 3,850/ of which Rs 3,350/ is for repairs to bank and Rs 500/ for compensation for land to be taken up from which to excavate soil to make up the banks. Considering the nature of the soil of which the banks are formed, it is <u>probable</u> that they will give trouble even if made up to this increased section

4. The second proposal is to lower the bed of the offtake from the 57th chain by constructing a $2\frac{1}{2}$ feet drop and to alter the crest levels of the two existing byewashes to the reduced levels of 419.15 and 418.72 respectively and also to lower the upper sill of drop No: 3 by 2 feet. The advantage to be

2P

be gained by this proposal is that no raising of the banks below the site of the proposed $2\frac{1}{2}$ feet drop, would be required as will be seen from the longitudinal section. Above the drop both banks will be raised and strengthened for which provision is made in the estimate under submission which is recommended for sanction.

I have the honour to be,

Sir,

your most obedient servant

J. V. Bodley Lieut. col: R.E.

Supg: Engineer, VI circle

11/5/98

P. W. D. 6th CIRCLE.

FROM

THE SUPERINTENDING ENGINEER,

6TH CIRCLE.

TO

THE CHIEF ENGINEER,

NO.

Dated. }
Received. } 189 .

Enclosure.

78